

**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) A method for ~~the heat treatment of treating~~ solids containing iron oxide, ~~comprising heating in which fine-grained solids are heated to a temperature of 700 to 1150°C in a fluidized bed reactor, comprising introducing from below a first gas or gas mixture from below through at least one gas supply tube into a mixing chamber region of the reactor located above the orifice region of the at least one gas supply tube through at least one gas supply tube,~~ the at least one gas supply tube being at least partly surrounded by a stationary annular fluidized bed which is fluidized by supplying fluidizing gas, wherein the gas flowing through the at least one gas supply tube entrains solids from the stationary annular fluidized bed into the mixing chamber when passing through the upper orifice region of the at least one gas supply tube, and further comprising adjusting the gas velocities of the first gas or gas mixture and of the fluidizing gas for the annular fluidized bed, wherein such that the gas velocities have a Particle-Froude-Number in the at least one gas supply tube are between 1 and 100, in the annular fluidized bed between 0.02 and 2, and in the mixing chamber between 0.3 and 30.
2. (currently amended) The method as claimed in claim 1, wherein the Particle-Froude-Number in the at least one gas supply tube is between 1.15 and 20.
3. (previously presented) The method as claimed in claim 1 wherein the Particle-Froude-Number in the annular fluidized bed is between 0.115 and 1.15.
4. (previously presented) The method as claimed in claim 1, wherein the Particle-Froude-Number in the mixing chamber is between 0.37 and 3.7.

5. (currently amended) The method as claimed in claim 1, further comprising adjusting the bed height of the solids in the reactor to have a filling level such that the annular fluidized bed extends beyond the upper orifice end of the at least one gas supply tube and that solids are constantly introduced into the first gas or gas mixture and are entrained by the gas stream to the ~~mixing chamber located above the orifice region of the gas supply tube.~~

6. (currently amended) The method as claimed in claim 1, wherein the solids containing iron oxide ~~comprises~~ comprise iron ore, nickel ore containing iron oxide, manganese ore containing iron oxide, or chromium ore containing iron oxide as ~~starting material.~~

7. (currently amended) The method as claimed in claim 1, further comprising generating at least part of the amount of heat required for the ~~thermal~~ heat treatment by combusting fuel supplied to the reactor with an oxygen-containing gas.

8. (currently amended) The method as claimed in claim 7, wherein the fuel is introduced into the reactor through the at least one gas supply tube.

9. (previously presented) The method as claimed in claim 7 wherein the fuel is introduced into the annular fluidized bed and/or the mixing chamber of the reactor.

10. (currently amended) The method as claimed in claim 7, wherein the oxygen-containing gas with has an oxygen content of 15 to 30 % and is introduced into the reactor either through a conduit above the annular fluidized bed or through the at least one gas supply tube, wherein the at least one gas supply tube is centrally located.

11. (currently amended) The method as claimed in claim 7, wherein at least part of the exhaust gas of a second reactor downstream of the fluidized bed reactor is introduced into the fluidized bed reactor via the at least one gas supply tube.

12. (currently amended) The method as claimed in claim 11, further comprising supplying a mixture of exhaust gas from the second reactor, of an oxygen-containing gas, and of gaseous fuel, to the fluidized bed reactor through the at least one gas supply tube.

13. (currently amended) The method as claimed in claim 1, further comprising combusting, in a combustion chamber upstream of the fluidized bed reactor, gaseous fuel and/or fuel-containing exhaust gas from a further reactor downstream of the fluidized bed reactor thereby generating a hot gas, and supplying the hot gas to the fluidized bed reactor via the at least one gas supply tube.

14. (currently amended) The method as claimed in claim 1, wherein the fluidizing gas is air; ~~wherein air is supplied to the reactor as fluidizing gas for the annular fluidized bed.~~

15. (currently amended) The method as claimed in claim 1, wherein the pressure in the fluidized bed reactor is between 0.8 and 10 bar.

16. (currently amended) The method as claimed in claim 1, ~~wherein before entering the reactor, further comprising preheating the solids before entering the fluidized bed reactor are preheated~~ in at least one preheating stage having [[a]] one or more suspension heat exchangers exchanger and [[a]] one or more downstream cyclones cyclone.

17. (currently amended) The method as claimed in claim 16, wherein the solids in a first suspension heat exchanger are heated by exhaust gas from a second suspension heat exchanger and in the second suspension heat exchanger the exhaust gas is from the fluidized bed reactor.

18. (currently amended) The method as claimed in claim 16, wherein 0 to 100 % of the solids separated in a cyclone of a first preheating stage are directly introduced into the fluidized bed reactor via a bypass conduit bypassing a second preheating stage, ~~whereas and wherein~~ the remaining amount of the solids are is first introduced into the second preheating stage before the ~~the remaining amount of the solids is also being~~ introduced into the reactor.

19. (currently amended) A plant for heat treating solids containing iron oxide ~~by the method as claimed in, claim 1, comprising a reactor constituting a fluidized bed reactor, wherein the reactor has a~~ comprises at least one gas supply tube at least partly surrounded by a stationary annular fluidized bed, and a mixing chamber located above the upper orifice region of the at least one gas supply tube, system which is formed such that wherein gas flowing through the at least one gas supply tube system entrains solids from ~~[[a]] the stationary annular fluidized bed, which at least partly surrounds the gas supply system, into the mixing chamber when passing through the upper orifice region of the gas supply tube.~~

20. (currently amended) The plant as claimed in claim 19, wherein the ~~gas supply system has~~ at least one gas supply tube extends upwards substantially vertically from the lower region of the reactor into the mixing chamber of the reactor, ~~the gas supply tube being at least partly surrounded by a chamber in which the stationary annular fluidized bed is formed.~~

21. (currently amended) The plant as claimed in claim 19 ~~20~~, wherein the at least one gas supply tube is arranged approximately centrally with reference to the cross-sectional area of the reactor.

22. (currently amended) The plant as claimed in claim 19, wherein the at least one gas supply tube has openings at the its shell surface ~~of the gas supply tube.~~

23. (currently amended) The plant as claimed in claim 19, wherein further comprising a downstream cyclone for separating solids ~~is provided downstream of the reactor~~ wherein the cyclone has a solids conduit leading to the annular fluidized bed of the reactor.

24. (currently amended) The plant as claimed in claim 19, wherein further comprising a gas distributor in the annular chamber of the reactor ~~a gas distributor is provided~~, wherein the gas distributor divides the chamber into an upper fluidized bed region and a lower gas distributor chamber, and that wherein the gas distributor chamber is connected with a supply conduit for fluidizing gas.

25. (currently amended) The plant as claimed in claim 19, wherein the reactor has a fuel supply conduit leading to the at least one gas supply tube and/or a fuel supply conduit leading to the annular chamber.

26. (currently amended) The plant as claimed in claim 19, wherein the reactor has a supply conduit for oxygen-containing gas, wherein the supply conduit leads leading to the at least one gas supply tube or into to a region above the annular fluidized bed.

27. (currently amended) The plant as claimed in claim 19, wherein further comprising a combustion chamber upstream of the reactor; ~~a combustion chamber is provided.~~

28. (currently amended) The plant as claimed in claim 19, wherein the at least one gas supply tube ~~of the reactor~~ is connected with another a second reactor downstream of the fluidized bed reactor via a supply conduit.

29. (previously presented) The plant as claimed in claim 22, wherein the openings are in the form of slots.